

## AMENDMENTS TO THE CLAIMS

- 1 1. (Currently Amended) A method of managing a distributed transaction, the method  
2 comprising the steps of:  
3 gathering latency information by monitoring latency of a network;  
4 generating one or more time period values based on said latency information;  
5 determining whether to terminate distributed transactions based on said one or more  
6 time period values;  
7 determining whether said latency information indicates that changes in the latency of  
8 said network satisfy adjustment criteria; ~~and~~  
9 if said latency information indicates that changes in the latency of said network  
10 satisfy adjustment criteria, then adjusting said one or more time period  
11 values;   
12 determining to undertake commitment of said distributed transaction; and  
13 after determining to undertake commitment of said distributed transaction,  
14 determining whether to terminate said distributed transaction based on said  
15 one or more time period values.
- 1 2. (Original) The method of Claim 1, wherein a participant participating in said  
2 distributed transaction executes a transaction from said distributed transaction and  
3 terminates said transaction based on termination criteria that includes at least one  
4 criterion based on a particular value from said one or more time period values.
- 1 3. (Original) The method of Claim 2, wherein said distributed transaction is managed by  
2 a coordinator that cooperates with said participant to execute the distributed  
3 transaction by communicating messages with the participant over the network.
- 1 4. (Original) The method of Claim 3, wherein the step of communicating with the  
2 participant over the network is performed using a stateless protocol.

- 1 5. (Original) The method of Claim 4, wherein the stateless protocol is HTTP or HTTPS.
- 1 6. (Original) The method of Claim 3, wherein said particular value is based on a period
- 2 of time between when a message is transmitted between said coordinator and said
- 3 participant and when an acknowledgement that the message has been received is
- 4 received by the originator of the message.
- 1 7. (Original) The method of Claim 1, wherein:
  - 2 said one or more time period values includes a particular value;
  - 3 the step of monitoring includes generating a set of one or more transit times, wherein
  - 4 each of said set of one or more transit times reflects a period of time between
  - 5 when a message is transmitted over the network from a sender to a receiver
  - 6 and when the sender receives an acknowledgement from the receiver that the
  - 7 receiver has received the message; and
- 8 wherein said adjustment criteria includes a criterion that each of said set of one or
- 9 more transit times lie outside a range associated with said particular value.
- 1 8. (Original) The method of Claim 7, wherein the step of generating a set of one or more
- 2 transit times includes the step of generating at least two transit times.
- 1 9. (Original) The method of Claim 7, wherein the step of generating a set of one or more
- 2 transit times is performed by pinging a server connected to a particular network.
- 1 10. (Original) The method of Claim 2, further including the step of determining a
- 2 transaction execution threshold period that reflects a period of time needed for said
- 3 participant to execute operations for transactions, wherein said particular value is
- 4 based on said transaction execution threshold period.
- 1 11. (Currently Amended) The method of Claim 4,2, wherein:
- 2 said transaction specifies a modification to an item of data; and

3           said participant determines whether said transaction satisfies termination criteria  
4           before allowing another modification specified by another transaction for said  
5           item of data.

1   12. (Currently Amended) A method of managing a distributed transaction, the method  
2           comprising the steps of:  
3           determining a set of one or more transaction execution periods for transactions  
4           executed by a participant that participates in distributed transactions, wherein  
5           each transaction execution period of said set of one or more transaction  
6           execution periods reflects the period of time that elapsed for said participant to  
7           execute said each transaction;  
8           if a difference between each of said set of one or more transaction execution periods  
9           and a transaction execution threshold period satisfies adjustment criteria, then  
10           adjusting said transaction execution threshold period;  
11           wherein termination criteria is based on said transaction execution threshold period;  
12           and  
13           wherein termination criteria is used todeterminedetermining whether to terminate  
14           said distributed transaction is based onafter determining to undertake  
15           commitment of said distributed transaction-execution threshold period.

1   13. (Original) The method of Claim 12, wherein said adjustment criteria include a  
2           criterion that said difference is so great that each of said set of one or more  
3           transaction execution periods lies outside a range based on said transaction execution  
4           threshold period.

1   14. (Original) The method of Claim 12, further including the steps of  
2           monitoring a network for changes in latency of the network; and

3 generating one or more time period values based on said changes in latency, wherein  
4 said termination criteria include a criterion based on said one or more time  
5 period values.

1 15. (Currently Amended) A method of managing a distributed transaction, the method  
2 comprising the steps of:

3 monitoring latency of a network, wherein said latency of said network is used to  
4 generate one or more time period values used to determine whether to  
5 terminate distributed transactions; and  
6 if changes in latency satisfy adjustment criteria, then adjusting said one or more time  
7 period values used to determine for determining whether to terminate said  
8 distributed transaction after determining to undertake commitment of said  
9 distributed transaction.

1 16. (Currently Amended) A computer-readable medium carrying one or more sequences  
2 of instructions for managing a distributed transaction, wherein execution of the one or  
3 more sequences of instructions by one or more processors causes the one or more  
4 processors to perform the steps of:

5 gathering latency information by monitoring latency of a network;  
6 generating one or more time period values based on said latency information;  
7 determining whether to terminate distributed transactions based on said one or more  
8 time period values;

9 determining whether said latency information indicates that changes in the latency of  
10 said network satisfy adjustment criteria; and

11 if said latency information indicates that changes in the latency of said network  
12 satisfy adjustment criteria, then adjusting said one or more time period values;  
13 determining to undertake commitment of said distributed transaction; and

14                   after determining to undertake commitment of said distributed transaction,  
15                   determining whether to terminate said distributed transaction based on said  
16                   one or more time period values.

1   17. (Original) The computer-readable media of Claim 16, wherein a participant  
2   participating in said distributed transaction executes a transaction from said  
3   distributed transaction and terminates said transaction based on termination criteria  
4   that includes at least one criterion based on a particular value from said one or more  
5   time period values.

1   18. (Original) The computer-readable media of Claim 17, wherein said distributed  
2   transaction is managed by a coordinator that cooperates with said participant to  
3   execute the distributed transaction by communicating messages with the participant  
4   over the network.

1   19. (Currently Amended) A computer-readable medium carrying one or more sequences  
2   of instructions for managing a distributed transaction, wherein execution of the one or  
3   more sequences of instructions by one or more processors causes the one or more  
4   processors to perform the steps of:

5                   determining a set of one or more transaction execution periods for transactions  
6                   executed by a participant that participates in distributed transactions, wherein  
7                   each transaction execution period of said set of one or more transaction  
8                   execution periods reflects the period of time that elapsed for said participant to  
9                   execute said each transaction;

10                  if a difference between each of said set of one or more transaction execution periods  
11                  and a transaction execution threshold period satisfies adjustment criteria, then  
12                  adjusting said transaction execution threshold period;  
13                  wherein termination criteria is based on said transaction execution threshold period;  
14                  and

15 wherein termination criteria is used to~~for determining~~determining whether to terminate  
16 ~~said distributed transaction is based on~~after determining to undertake  
17 commitment of said distributed transaction~~execution threshold period~~.

1 20. (Currently Amended) A computer-readable medium carrying one or more  
2 sequences of instructions for managing a distributed transaction, wherein  
3 execution of the one or more sequences of instructions by one or more processors  
4 causes the one or more processors to perform the steps of:  
5 monitoring latency of a network, wherein said latency of said network is used to  
6 generate one or more time period values used to determine whether to  
7 terminate distributed transactions; and  
8 if changes in latency satisfy adjustment criteria, then adjusting said one or more  
9 time period values ~~to determine~~for determining whether to terminate  
10 said distributed transaction after determining to undertake commitment of  
11 said distributed transaction.

1 21. (Previously Presented) The computer-readable medium of Claim 18, wherein the step  
2 of communicating with the participant over the network is performed using a stateless  
3 protocol.

1 22. (Previously Presented) The computer-readable medium of Claim 21, wherein the  
2 stateless protocol is HTTP or HTTPS.

1 23. (Previously Presented) The computer-readable medium of Claim 18, wherein said  
2 particular value is based on a period of time between when a message is transmitted  
3 between said coordinator and said participant and when an acknowledgement that the  
4 message has been received is received by the originator of the message.

1 24. (Previously Presented) The computer-readable medium of Claim 16, wherein:  
2 said one or more time period values includes a particular value;

3       the step of monitoring includes generating a set of one or more transit times, wherein  
4                    each of said set of one or more transit times reflects a period of time between  
5                    when a message is transmitted over the network from a sender to a receiver  
6                    and when the sender receives an acknowledgement from the receiver that the  
7                    receiver has received the message; and

8        wherein said adjustment criteria includes a criterion that each of said set of one or  
9                    more transit times lie outside a range associated with said particular value.

1   25. (Previously Presented) The computer-readable medium of Claim 24, wherein the step  
2        of generating a set of one or more transit times includes the step of generating at least  
3        two transit times.

1   26. (Previously Presented) The computer-readable medium of Claim 24, wherein the step  
2        of generating a set of one or more transit times is performed by pinging a server  
3        connected to a particular network.

1   27. (Previously Presented) The computer-readable medium of Claim 17, the steps further  
2        including the step of determining a transaction execution threshold period that reflects  
3        a period of time needed for said participant to execute operations for transactions,  
4        wherein said particular value is based on said transaction execution threshold period.

1   28. (Currently Amended) The computer-readable medium of Claim 16,17, wherein:  
2        said transaction specifies a modification to an item of data; and  
3        said participant determines whether said transaction satisfies termination criteria  
4                    before allowing another modification specified by another transaction for  
5                    said item of data.

1   29. (Previously Presented) The computer-readable medium of Claim 19, wherein said  
2        adjustment criteria include a criterion that said difference is so great that each of said  
3        set of one or more transaction execution periods lies outside a range based on said  
4        transaction execution threshold period.

1       30. (Previously Presented) The computer-readable medium of Claim 19, the steps further  
2           including the steps of:  
3           monitoring a network for changes in latency of the network; and  
4           generating one or more time period values based on said changes in latency, wherein  
5           said termination criteria include a criterion based on said one or more time  
6           period values.